

FIG.1

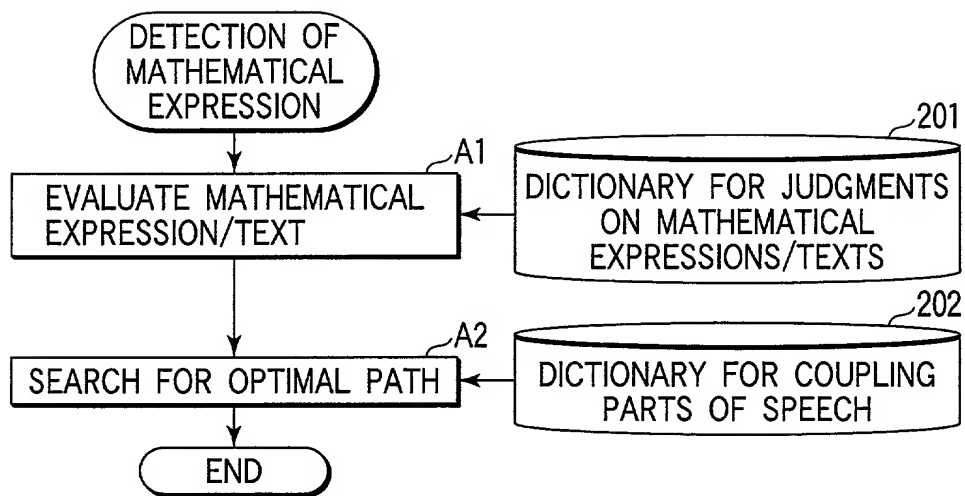


FIG. 2

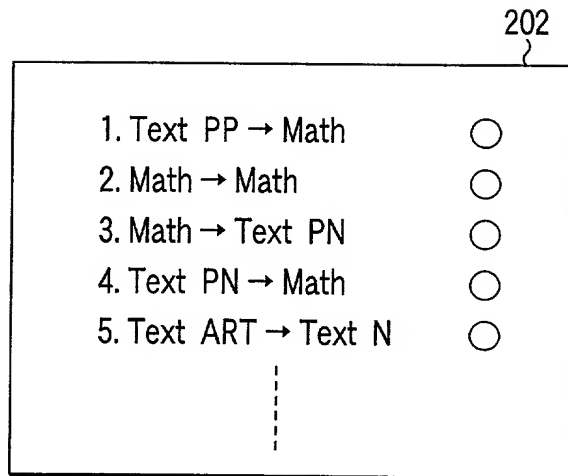
Original Image	with $f(X)=X$, where U is a											
Recognized Result	with $f(, \backslash) = , \backslash$ where U is a											
Evaluation	Math	0	90	100	100	0	90	70	90			
	Text	100	40	20	20	100	40	70	90			

FIG. 3

DICTIONARY FOR JUDGMENTS ON MATHEMATICAL EXPRESSIONS/TEXTS

FIG. 5





DICTIONARY FOR COUPLING PARTS OF SPEECH

FIG. 6

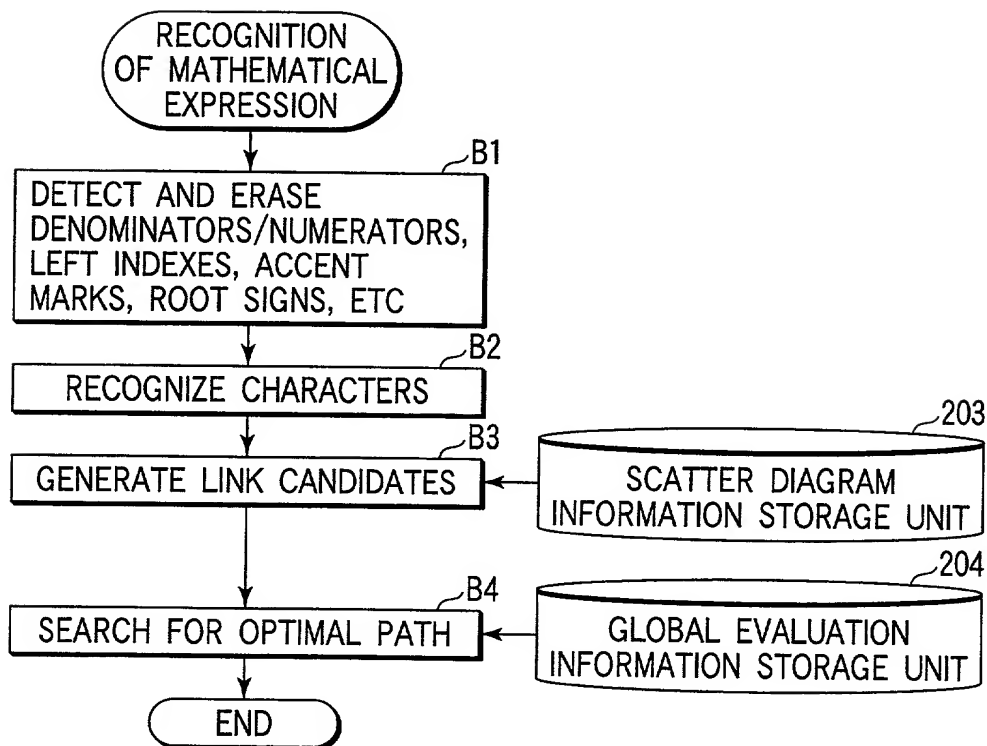


FIG. 7

$$\lim_{x \rightarrow \infty} \int_0^5 \frac{cx^2y^3}{3_a} xdx$$

FIG. 8

ORIGINAL
IMAGE

cx²y³

CANDIDATE
CHARACTERS

C	x	2	y	3
c	X		Y	

FIG. 9

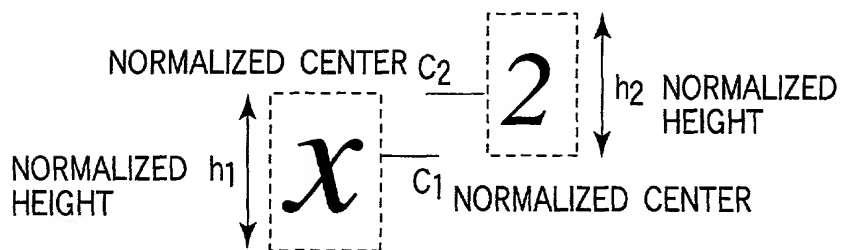
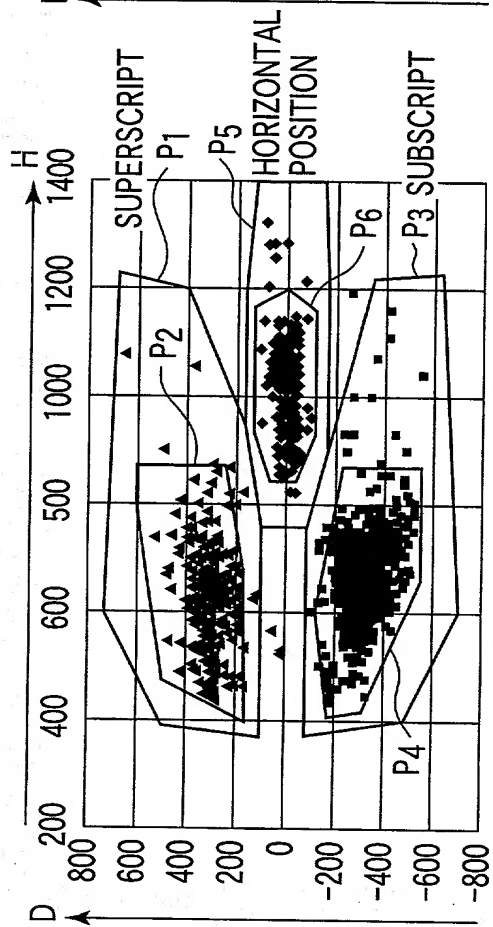
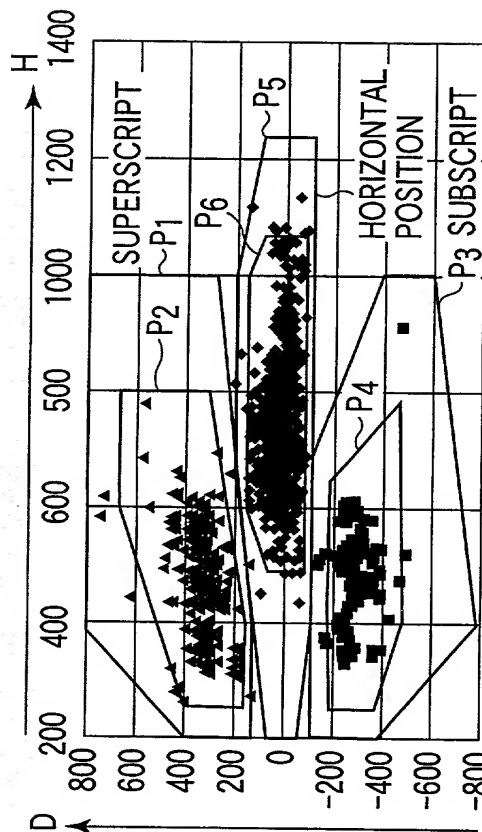


FIG. 10



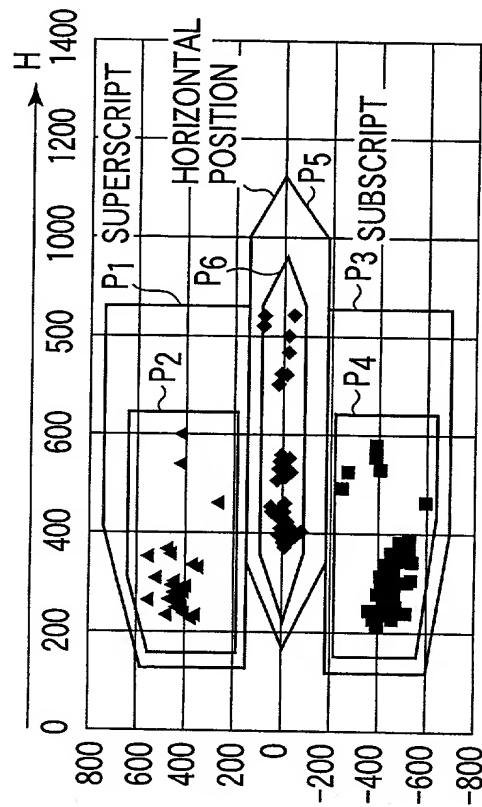
ALPHABET TYPE - ALPHABET TYPE

FIG. 11A



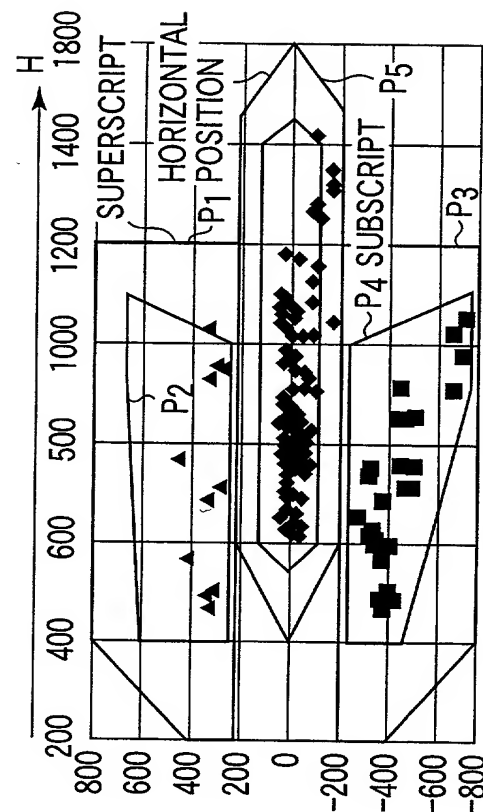
ALPHABET TYPE - OPERATOR

FIG. 11B



INTEGRAL - ALPHABET TYPE

FIG. 11C



ΣTYPE - ALPHABET TYPE

FIG. 11D

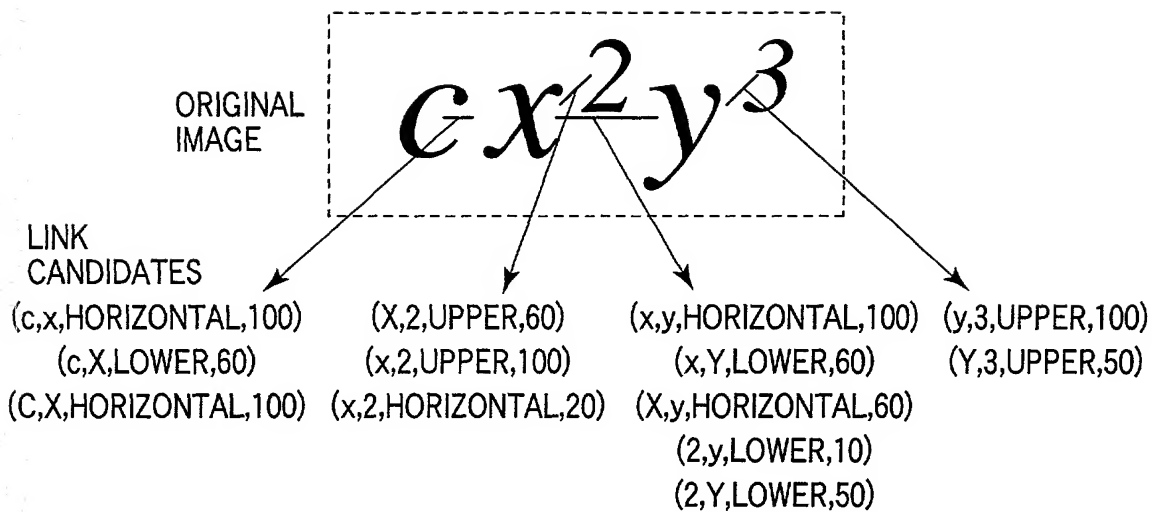


FIG. 12

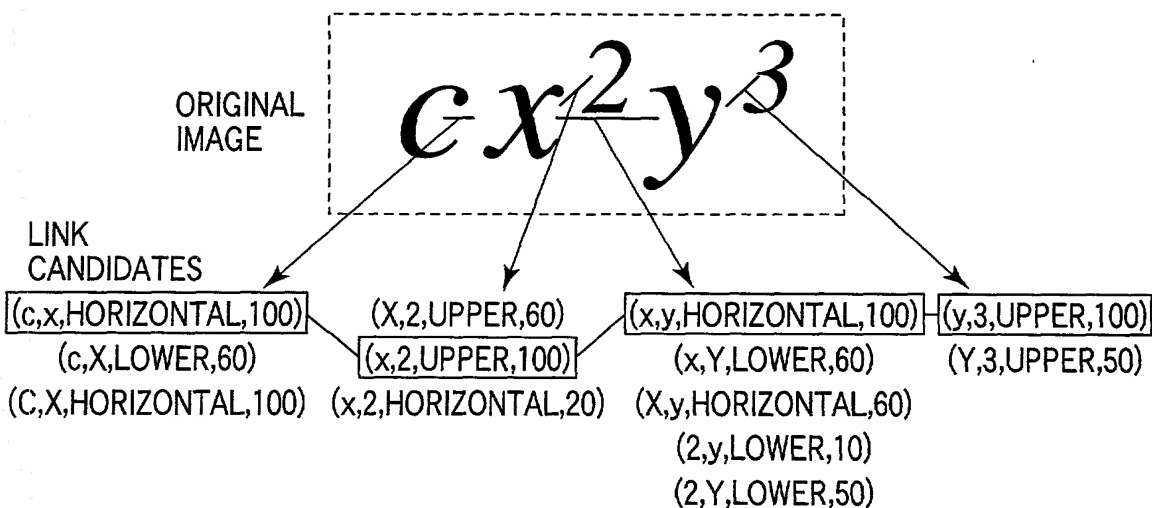


FIG. 13

$$a^2+b \Rightarrow a^2+b$$

"b" FOLLOWING "2" IS MISJUDGED TO BE CONTAINED IN THE INDEX REGION OF "2" BECAUSE "+" IS MISJUDGED TO BE AN INDEX OF "2". THE CHARACTER SIZE OF "b" NEEDS TO BE MADE LARGER THAN "2" AND THE GLOBAL EVALUATION NEEDS TO BE REDUCED.

FIG. 14A

$$Ax+By \Rightarrow Ax+By$$

"x" IS MISJUDGED TO BE CAPITAL LETTER "X" AND "B" LOCATED ON THE BASE LINE WITH A IS MISJUDGED TO BE IN THE INDEX REGION. THE GLOBAL EVALUATION NEEDS TO BE REDUCED.

FIG. 14B

$$Ax+Cx \Rightarrow Ax+Cx$$

"C" IS MISJUDGED TO BE SMALLER LETTER "c" AND CONSEQUENTLY THE SIZE OF NORMALIZATION OF "c" BECOMES LARGER THAT THE SIZE OF NORMALIZATION OF "A". THE GLOBAL EVALUATION NEEDS TO BE LOWERED.

FIG. 14C